DEWALT®

DCD920
DCD925
DCD930
DCD935
DCD940
DCD945

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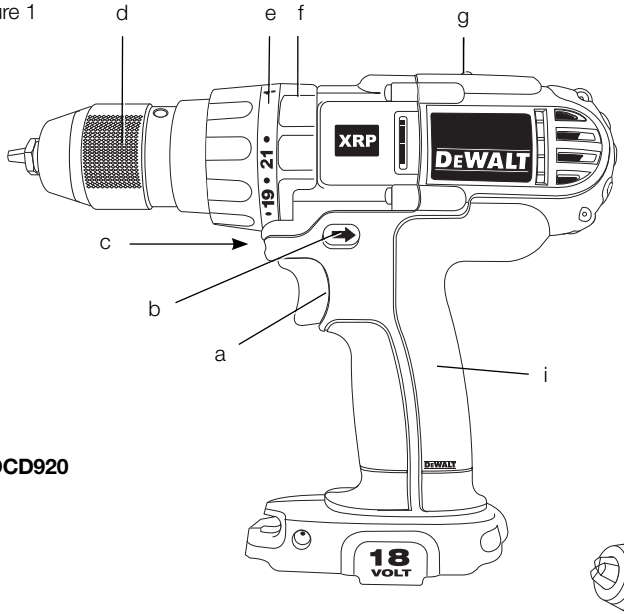
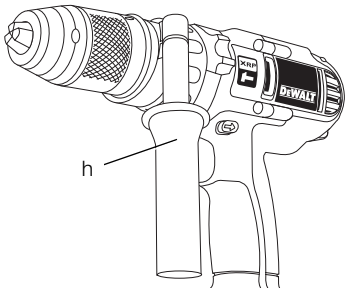
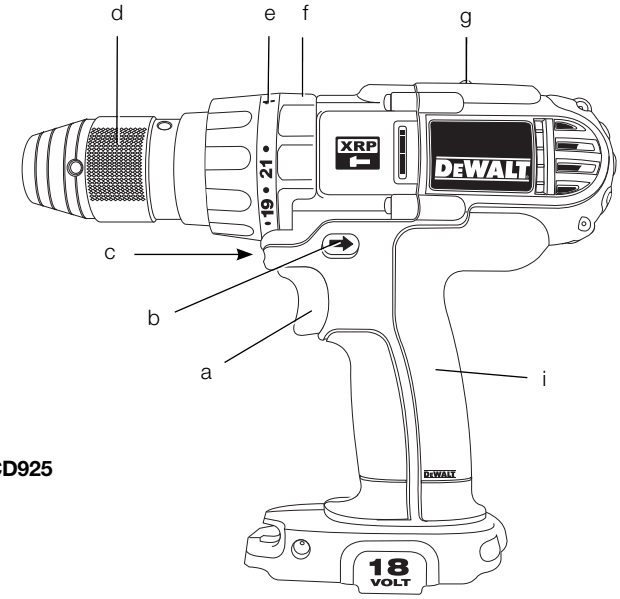
Figure 1



DCD920





DCD925

Figure 2

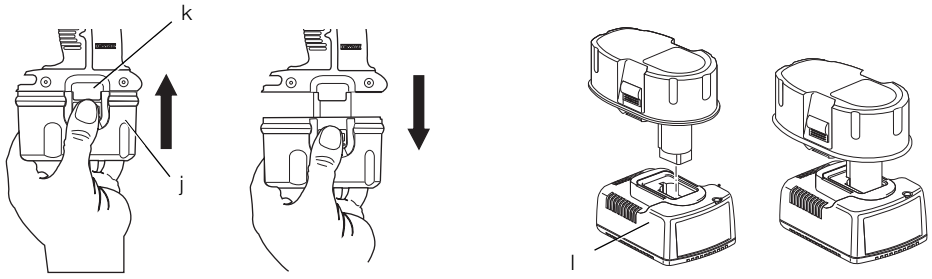


Figure 3

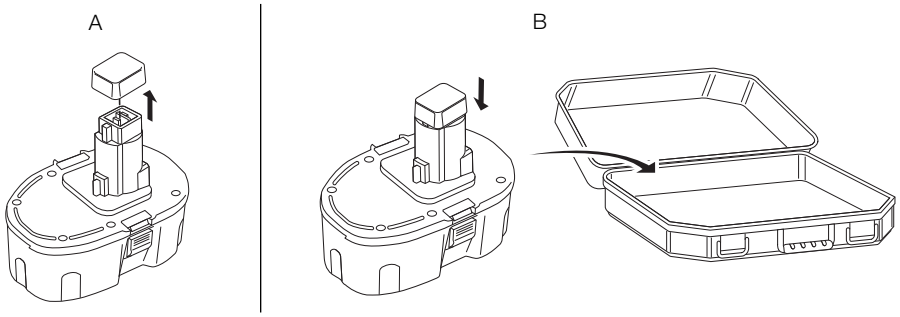


Figure 4

Figure 5

Figure 6

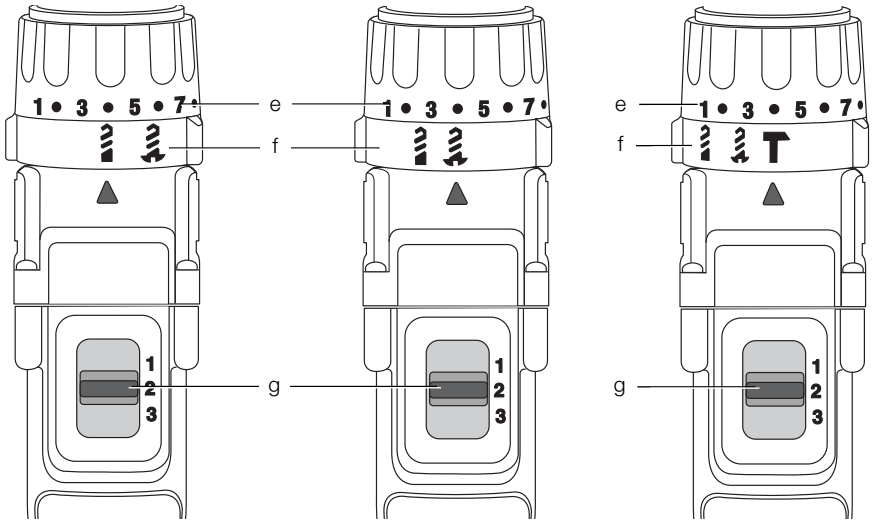
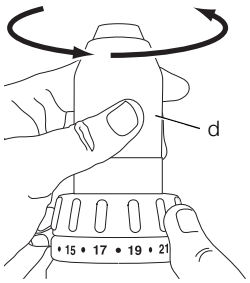


Figure 7



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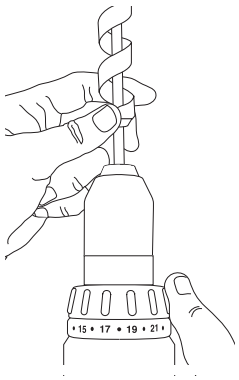

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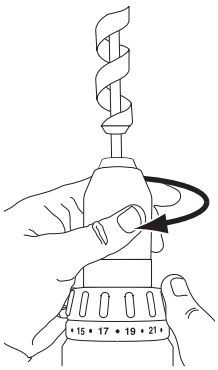


Figure 10

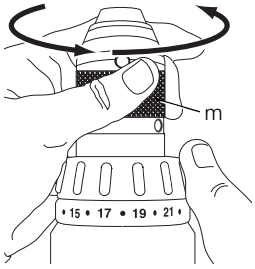


Figure 11

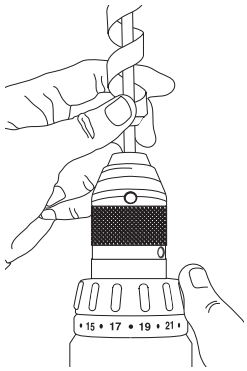


Figure 12

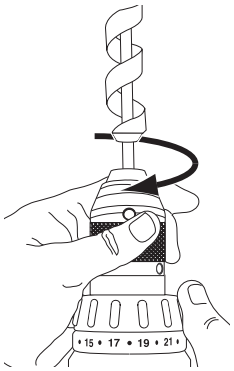
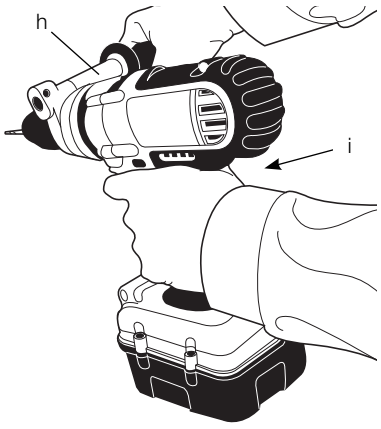


Figure 13



1/2" (13 mm) CORDLESS DRILL/DRIVER
DCD920, DCD930, DCD940
1/2" (13 mm) CORDLESS HAMMERDRILL/DRIVER
DCD925, DCD935, DCD945

Congratulations!

You have chosen a DEWALT tool. Years of experience, thorough product development and innovation make DEWALT one of the most reliable partners for professional power tool users.

Technical Data

		DCD925	DCD920	DCD935	DCD930	DCD945	DCD940
Voltage	V_{DC}	18	18	14.4	14.4	12	12
Type		10	10	10	10	10	10
Battery Type		NiMH/Li-Ion	NiMH/Li-Ion	NiMH/Li-Ion	NiMH/Li-Ion	NiMH	NiMH
Power output	W	450	450	325	325	285	285
No-load speed							
1st gear	min^{-1}	0–500	0–500	0–425	0–425	0–425	0–425
2nd gear	min^{-1}	0–1,250	0–1,250	0–1,200	0–1,200	0–1,200	0–1,200
3rd gear	min^{-1}	0–2,000	0–2,000	0–1,800	0–1,800	0–1,800	0–1,800
Impact rate							
1st gear	min^{-1}	0–8,500	–	0–7,225	–	0–7,225	–
2nd gear	min^{-1}	0–21,250	–	0–20,400	–	0–20,400	–
3rd gear	min^{-1}	0–34,000	–	0–30,600	–	0–30,600	–
Max. torque	Nm	55	55	50	50	44	44
Chuck capacity	mm	1.5–13	1.5–13	1.5–13	1.5–13	1.5–13	1.5–13
Maximum drilling capacity							
Wood	mm	50	50	45	45	38	38
Metal	mm	13	13	13	13	13	13
Masonry	mm	16	16	14	14	13	13
Weight (without battery pack)	kg	1.82	1.7	1.79	1.68	1.79	1.68
L_{PA} (sound pressure)	dB(A)	88	77	88	77	88	77
K_{PA} (sound pressure uncertainty)	dB(A)	3	3	3	3	3	3
L_{WA} (sound power)	dB(A)	99	88	99	88	99	88
K_{WA} (sound power uncertainty)	dB(A)	3	3	3	3	3	3
Vibration total values (triax vector sum) determined according to EN 60745:							
Vibration emission value a_h							
Drilling into metal							
$a_{h,D}$ =	m/s^2	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Uncertainty K =	m/s^2	1.5	1.5	1.5	1.5	1.5	1.5
Vibration emission value a_h							
Impact drilling							
$a_{h,ID}$ =	m/s^2	10.5	–	10.5	–	10.5	–
Uncertainty K =	m/s^2	1.8	–	1.8	–	1.8	–

Vibration emission value a_h							
Screwdriving							
$a_{h,D}$ =	m/s²	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Uncertainty K =	m/s²	1.5	1.5	1.5	1.5	1.5	1.5

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

WARNING: *The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.*

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Battery pack		DE9180	DE9503	DE9140	DE9502	DE9501
Battery type		Li-Ion	NiMH	Li-Ion	NiMH	NiMH
Voltage	V_{DC}	18	18	14.4	14.4	12
Capacity	A_h	2.0	2.6	2.0	2.6	2.6
Weight	kg	0.68	1.0	0.58	0.86	0.69

Charger		DE9135	DE9116
Mains voltage	V_{AC}	230	230
Battery type		NiCd/NiMH/Li-Ion	NiCd/NiMH
Approx. charging time	min	40 (2.0 Ah battery packs)	60 (2.0 Ah battery packs)
Weight	kg	0.52	0.4

Fuses:		
Europe	230 V tools	10 Amperes, mains
U.K. & Ireland	230 V tools	3 Amperes, in plugs

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

DANGER: *Indicates an imminently hazardous situation which, if not avoided,* ***will*** *result in* ***death or serious injury****.*

WARNING: *Indicates a potentially hazardous situation which, if not avoided,* ***could*** *result in* ***death or serious injury****.*

CAUTION: *Indicates a potentially hazardous situation which, if not avoided,* ***may*** *result in* ***minor or moderate injury****.*

NOTICE: *Indicates a practice* ***not related to personal injury*** *which, if not avoided,* ***may*** *result in* ***property damage****.*

Denotes risk of electric shock.

Denotes risk of fire.

EC-Declaration of Conformity

MACHINERY DIRECTIVE

CE

DCD925, DCD920, DCD935, DCD930, DCD945, DCD940

DEWALT declares that these products described under “technical data” are in compliance with: 98/37/EC (until Dec. 28, 2009), 2004/108/EC,

2006/42/EC (from Dec. 29, 2009), EN 60745-1, EN 60745-2-1, EN 60745-2-2.

These products also comply with Directive 2004/108/EC. For more information, please contact DEWALT at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of DEWALT.

Horst Grossmann
Vice President Engineering and Product Development
DEWALT, Richard-Klinger-Straße 11,
D-65510, Idstein, Germany
30.07.2009

WARNING: *To reduce the risk of injury, read the instruction manual.*

General Power Tool Safety Warnings

WARNING! Read all safety warnings and all instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

a) ***Keep work area clean and well lit.*** *Cluttered or dark areas invite accidents.*

b) ***Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.*** *Power tools create sparks which may ignite the dust or fumes.*

c) ***Keep children and bystanders away while operating a power tool.*** *Distractions can cause you to lose control.*

2) ELECTRICAL SAFETY

a) ***Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.*** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) ***Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.*** *There is an increased risk of electric shock if your body is earthed or grounded.*

c) ***Do not expose power tools to rain or wet conditions.*** *Water entering a power tool will increase the risk of electric shock.*

d) ***Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.*** *Damaged or entangled cords increase the risk of electric shock.*

e) ***When operating a power tool outdoors, use an extension cord suitable for outdoor use.*** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) ***If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.*** *Use of an RCD reduces the risk of electric shock.*

3) PERSONAL SAFETY

a) ***Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.*** *A moment of inattention while operating power tools may result in serious personal injury.*

b) ***Use personal protective equipment. Always wear eye protection.*** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

c) ***Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool.*** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

d) ***Remove any adjusting key or wrench before turning the power tool on.*** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) ***Do not overreach. Keep proper footing and balance at all times.*** *This enables better control of the power tool in unexpected situations.*

f) ***Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.*** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) ***If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.*** *Use of dust collection can reduce dust-related hazards.*

4) POWER TOOL USE AND CARE

a) ***Do not force the power tool. Use the correct power tool for your application.*** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) ***Do not use the power tool if the switch does not turn it on and off.*** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) ***Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.*** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) ***Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.*** *Power tools are dangerous in the hands of untrained users.*

e) ***Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.*** *Many accidents are caused by poorly maintained power tools.*

f) ***Keep cutting tools sharp and clean.*** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) ***Use the power tool, accessories and tool bits etc., in accordance with these instructions taking into account the working conditions and the work to be performed.*** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

5) BATTERY TOOL USE AND CARE

a) ***Recharge only with the charger specified by the manufacturer.*** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

b) ***Use power tools only with specifically designated battery packs.*** *Use of any other battery packs may create a risk of injury and fire.*

c) ***When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another.*** *Shorting the battery terminals together may cause burns or a fire.*

d) ***Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.*** *Liquid ejected from the battery may cause irritation or burns.*

6) SERVICE

a) ***Have your power tool serviced by a qualified repair person using only identical replacement parts.*** *This will ensure that the safety of the power tool is maintained.*

Additional Specific Safety Rules for Drills/Drivers/Hammerdrills

- ***Wear ear protectors when impact drilling.*** *Exposure to noise can cause hearing loss.*
- ***Use auxiliary handles, if supplied with the tool.*** *Loss of control can cause personal injury.*
- ***Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.*** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
- ***Use clamps or other practical way to secure and support the workpiece to a stable platform.*** *Holding the work by hand or against your body is unstable and may lead to loss of control.*
- ***Wear ear protectors when hammering for extended periods of time.*** *Prolonged exposure to high intensity noise can cause hearing loss. Temporary hearing loss or serious ear drum damage may result from high sound levels generated by hammerdrilling.*
- ***Wear safety goggles or other eye protection.*** *Hammering and drilling operations cause chips to fly. Flying particles can cause permanent eye damage.*

- ***Hammer bits and tools get hot during operation.*** *Wear gloves when touching them.*

Residual Risks

The following risks are inherent to the use of percussion drills:

– *Injuries caused by touching the rotating parts or hot parts of the tool.*

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:

– *Impairment of hearing.*

– *Risk of squeezing fingers when changing accessories.*

– *Health hazards caused by breathing dust developed when working in wood.*

– *Risk of personal injury due to flying particles.*

– *Risk of personal injury due to prolonged use.*

Markings on Tool

The following pictograms are shown on the tool:

Read instruction manual before use.

DATE CODE POSITION

The Date Code, which also includes the year of manufacture, is printed into the housing surface that forms the mounting joint between tool and battery.

Example:

2009 XX XX

Year of Manufacture

Important Safety Instructions for All Battery Chargers

SAVE THESE INSTRUCTIONS: *This manual contains important safety and operating instructions for the DE9135/DE9116 battery chargers.*

- *Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.*

DANGER: *Electrocution hazard. 230 volts are present at charging terminals. Do not probe with conductive objects. Electric shock or electrocution may result.*

WARNING: *Shock hazard. Do not allow any liquid to get inside charger. Electric shock may result.*

CAUTION: *Burn hazard. To reduce the risk of injury, charge only DEWALT rechargeable batteries. Other types of batteries may burst causing personal injury and damage.*

CAUTION: *Under certain conditions, with the charger plugged in to the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.*

- ***DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual.*** *The charger and battery pack are specifically designed to work together.*
- ***These chargers are not intended for any uses other than charging DEWALT rechargeable batteries.*** *Any other uses may result in risk of fire, electric shock or electrocution.*
- ***Do not expose charger to rain or snow.***
- ***Pull by plug rather than cord when disconnecting charger.*** *This will reduce risk of damage to electric plug and cord.*
- ***Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.***
- ***Do not use an extension cord unless it is absolutely necessary.*** *Use of improper extension cord could result in risk of fire, electric shock, or electrocution.*
- ***Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat.*** *Place the charger in a position away from any heat source. The charger is ventilated through slots in the top and the bottom of the housing.*
- ***Do not operate charger with damaged cord or plug*** *— have them replaced immediately.*
- ***Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way.*** *Take it to an authorized service center.*

- ***Do not disassemble charger; take it to an authorized service center when service or repair is required.*** *Incorrect reassembly may result in a risk of electric shock, electrocution or fire.*
- ***Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock.*** *Removing the battery pack will not reduce this risk.*
- ***NEVER*** *attempt to connect 2 chargers together.*
- ***The charger is designed to operate on standard 230V household electrical power. Do not attempt to use it on any other voltage.*** *This does not apply to the vehicular charger.*

SAVE THESE INSTRUCTIONS

Chargers

The DE9116 charger accepts 7.2–18 V NiCd and NiMH batteries.

The DE9135 charger accepts 7.2–18 V NiCd, NiMH or Li-Ion batteries.

These chargers require no adjustment and are designed to be as easy as possible to operate.

Charging Procedure (fig. 1)

DANGER: *Electrocution hazard. 230 volts present at charging terminals. Do not probe with conductive objects. Danger of electric shock or electrocution.*

1. Plug the charger (I) into an appropriate outlet before inserting battery pack.
2. Insert the battery pack into the charger. The red (charging) light will blink continuously indicating that the charging process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The pack is fully charged and may be used at this time or left in the charger.

NOTE: To ensure maximum performance and life of NiCd, NiMH and Li-Ion batteries, charge the battery for a minimum of 10 hours before first use.

Charging Process

Refer the table below for the state of charge of the battery pack.

State of charge	
charging	– – – –
fully charged	————
hot/cold pack delay	— – — –
replace battery pack	••••••••••
problem	•• •• •• ••

Automatic Refresh

The automatic refresh mode will equalise or balance the individual cells in the battery pack at its peak capacity. Battery packs should be refreshed weekly or whenever the pack no longer delivers the same amount of work.

To refresh your battery pack, place the battery in the charger as usual. Leave the battery pack for at least 10 hours in the charger.

Hot/Cold Pack Delay

When the charger detects a battery that is too hot or too cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery has reached an appropriate temperature. The charger then automatically switches to the pack charging mode. This feature ensures maximum battery life.

LI-ION BATTERY PACKS ONLY

Li-Ion batteries are designed with an Electronic Protection System that will protect the battery against overloading, overheating or deep discharge.

The tool will automatically turn off if the Electronic Protection System engages. If this occurs, place the Li-Ion battery on the charger until it is fully charged.

Important Safety Instructions for All Battery Packs

When ordering replacement battery packs, be sure to include catalog number and voltage.

The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.

READ ALL INSTRUCTIONS

- ***Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.*** *Inserting or removing the battery from the charger may ignite the dust or fumes.*
- *Charge the battery packs only in DEWALT chargers.*
- ***DO NOT*** *splash or immerse in water or other liquids.*

- ***Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40˚ C (105° F) (such as outside sheds or metal buildings in summer).***

  DANGER: *Never attempt to open the battery pack for any reason. If battery pack case is cracked or damaged, do not insert into charger. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (i.e., pierced with a nail, hit with a hammer, stepped on). Electric shock or electrocution may result. Damaged battery packs should be returned to service center for recycling.*

  CAUTION: When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. *Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over.*

SPECIFIC SAFETY INSTRUCTIONS FOR NICKEL CADMIUM (NiCd) OR NICKEL METAL HYDRIDE (NiMH)

- ***Do not incinerate the battery pack even if it is severely damaged or is completely worn out.*** *The battery pack can explode in a fire.*
- ***A small leakage of liquid from the battery pack cells may occur under extreme usage or temperature conditions.*** *This does not indicate a failure.*

  However, if the outer seal is broken:

  a. *and the battery liquid gets on your skin, immediately wash with soap and water for several minutes.*

  b. *and the battery liquid gets into your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention. (**Medical note:** The liquid is 25–35% solution of potassium hydroxide.)*

SPECIFIC SAFETY INSTRUCTIONS FOR LITHIUM ION (Li-Ion)

- ***Do not incinerate the battery pack even if it is severely damaged or is completely worn out.*** *The battery pack can explode in a fire. Toxic fumes and materials are created when lithium ion battery packs are burned.*
- ***If battery contents come into contact with the skin, immediately wash area with mild soap and water.*** *If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.*
- ***Contents of opened battery cells may cause respiratory irritation.*** *Provide fresh air. If symptoms persists, seek medical attention.*

  WARNING: *Burn hazard. Battery liquid may be flammable if exposed to spark or flame.*

Battery Cap (fig. 3)

A protective battery cap is supplied to cover the contacts of a detached battery pack. Without the protective cap in place, loose metal objects could short circuit the contacts, causing a fire hazard and damaging the battery pack.

1. Take off the protective battery cap before placing the battery pack in the charger or tool (fig. 3A).
2. Place the protective cap over the contacts immediately after removing the battery pack from the charger or tool (fig. 3B).

   WARNING: *Make sure the protective battery cap is in place before storing or carrying a detached battery pack.*

Battery Pack

BATTERY TYPE

The DCD925 and DCD920 operate on 18 volt battery packs.

The DCD935 and DCD930 operate on 14,4 volt battery packs.

The DCD945 and DCD940 operate on 12 volt battery pack

Storage Recommendations

1. The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold. For optimum battery performance and life, store battery packs at room temperature when not in use.

   NOTE: Li-Ion battery packs should be fully charged when stored.

2. Long storage will not harm the battery pack or charger. Under proper conditions, they can be stored for up to 5 years.

Labels on Charger and Battery Pack

In addition to the pictographs used in this manual, the labels on the charger and the battery pack show the following pictographs:

Read instruction manual before use.

Battery charging.

Battery charged.

Battery defective.

Hot/cold pack delay.

Do not probe with conductive objects.

Do not charge damaged battery packs.

Use only with DEWALT battery packs, others may burst, causing personal injury and damage.

Do not expose to water.

Have defective cords replaced immediately.

Charge only between 4 °C and 40 °C.

Discard the battery pack with due care for the environment.

Do not incinerate the battery pack NiMH, NiCd+ and Li-Ion.

Charges NiMH and NiCd battery packs.

Charges Li-Ion battery packs.

See technical data for charging time.

Package Contents

The package contains:

1 cordless percussion drill (DCD945, DCD935, DCD925 models)

1 cordless midhandle drill driver (DCD940, DCD930, DCD920 models)

1 Li-Ion battery pack (L1 models)

2 Li-Ion battery packs (L2 models)

2 NiMH battery packs (B2 models)

3 NiMH battery packs (B3 models)

1 Kitbox

1 Charger

1 Side handle

1 Instruction manual

1 Exploded drawing

NOTE: Battery packs and chargers are not included with N-models.

- *Check for damage to the tool, parts or accessories which may have occurred during transport.*
- *Take the time to thoroughly read and understand this manual prior to operation.*

Description (fig. 1, 2)

WARNING: *Never modify the power tool or any part of it. Damage or personal injury could result.*

a. Trigger switch
b. Forward/reverse button
c. LED light
d. Chuck
e. Torque adjustment collar
f. Mode control collar
g. Gear shifter
h. Side handle
i. Main handle
j. Battery pack
k. Battery release buttons
l. Charger

INTENDED USE

These drills/drivers/hammerdrills are designed for professional drilling, precussion drilling and screwdriving applications.

DO NOT use under wet conditions or in presence of flammable liquids or gases.

These drills/drivers/hammerdrills are professional power tools.

DO NOT let children come into contact with the tool. Supervision is required when inexperienced operators use this tool.

Electrical Safety

The electric motor has been designed for one voltage only. Always check that the battery pack voltage corresponds to the voltage on the rating plate. Also make sure that the voltage of your charger corresponds to that of your mains.

Your DEWALT charger is double insulated in accordance with EN 60335; therefore no earth wire is required.

If the supply cord is damaged, it must be replaced by a specially prepared cord available through the DEWALT service organization.

Mains Plug Replacement (U.K. & Ireland Only)

If a new mains plug needs to be fitted:

- *Safely dispose of the old plug.*
- *Connect the brown lead to the live terminal in the plug.*
- *Connect the blue lead to the neutral terminal.*

WARNING: *No connection is to be made to the earth terminal.*

Follow the fitting instructions supplied with good quality plugs. Recommended fuse: 3 A.

Using an Extension Cable

An extension cord should not be used unless absolutely necessary. Use an approved extension cable suitable for the power input of your charger (see technical data). The minimum conductor size is 1 mm^2; the maximum length is 30 m.

When using a cable reel, always unwind the cable completely.

ASSEMBLY AND ADJUSTMENTS

WARNING: *Prior to assembly and adjustment, always remove the battery pack. Always switch off the tool before inserting or removing the battery pack.*

WARNING: *Use only DEWALT battery packs and chargers.*

Inserting and Removing the Battery Pack from the Tool (fig. 2)

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect battery pack before making any adjustments or removing/installing attachments or accessories. *An accidental start-up can cause injury.*

NOTE: Make sure your battery pack (j) is fully charged.

TO INSTALL THE BATTERY PACK INTO THE TOOL HANDLE

1. Align the base of the tool with the notch inside the tool's handle (fig. 2).
2. Slide the battery pack firmly into the handle until you hear the lock snap into place.

TO REMOVE THE BATTERY PACK FROM THE TOOL

1. Press the release buttons (k) and firmly pull the battery pack out of the tool handle.
2. Insert battery pack into the charger as described in the charger section of this manual.

Variable Speed Switch (fig. 1)

To turn the tool on, squeeze the trigger switch (a). To turn the tool off, release the trigger switch. Your tool is equipped with a brake. The chuck will stop as soon as the trigger switch is fully released.

NOTE: Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

Side Handle (fig. 1)

WARNING:*To reduce the risk of personal injury,* ***ALWAYS*** *operate the tool with the side handle properly installed. Failure to do so may result in the side handle slipping during tool operation and subsequent loss of control. Hold tool with both hands to maximize control.*

The side handle (h) clamps to the front of the gear case and may be rotated 360° to permit right- or left-hand use. Side handle must be tightened sufficiently to resist the twisting action of the tool if the accessory binds or stalls. Be sure to grip the side handle at the far end to control the tool during a stall.

If model is not equipped with side handle, grip drill with one hand on the handle and one hand on the battery pack.

NOTE: Side handle comes equipped on all models.

Forward/Reverse Control Button (fig. 1)

A forward/reverse control button (b) determines the direction of the tool and also serves as a lock off button.

To select forward rotation, release the trigger switch and depress the forward/reverse control button on the right side of the tool.

To select reverse, release the trigger switch and depress the forward/reverse control button on the left side of the tool.

The center position of the control button locks the tool in the off position. When changing the position of the control button, be sure the trigger is released.

NOTE: The first time the tool is run after changing the direction of rotation, you may hear a click on start up. This is normal and does not indicate a problem.

Worklight (fig. 1)

There is a worklight (c) located just above the trigger switch (a). The worklight will be activated when the trigger switch is squeezed.

NOTE: The worklight is for lighting the immediate work surface and is not intended to be used as a flashlight.

Mode Control Collar (fig. 4–6)

Your drill is equipped with a separate mode control collar (f) to switch between drilling, screwdriving and hammerdrilling mode.

DRILLING (FIG. 4)

CAUTION: *When the mode collar is in the drill/hammerdrill mode, the drill will not clutch out regardless of the position of the torque adjustment collar (e).*

Rotate the mode control collar (f) so the drill symbol is aligned with the arrow.

NOTE: The torque adjustment collar (e) may be set on any number.

SCREWDRIVING (FIG. 5)

Rotate the mode control collar (f) so the screw symbol is aligned with the arrow.

NOTE: The torque adjustment collar may be set to any number at any time. However, the torque adjustment collar is only engaged during screwdriving mode and not in drill and hammerdrill modes.

HAMMERDRILLING (FIG. 6)

CAUTION: *When the mode collar is in the drill/hammerdrill mode, the drill will not clutch out regardless of the position of the torque adjustment collar (e).*

Rotate the mode control collar (f) so the hammer symbol is aligned with the arrow.

Torque Adjustment Collar (fig. 4–6)

Your tool has an adjustable torque screwdriver mechanism for driving and removing a wide array of fastener shapes and sizes. Circling the torque adjustment collar (e) are numbers. These numbers are used to set the clutch to deliver a torque range. The higher the number on the collar, the higher the torque and the larger the fastener which can be driven. To select any of the numbers, rotate until the desired number aligns with the arrow.

Three-Speed Gearing (fig. 4–5)

The three-speed feature of your tool allows you to shift gears for greater versatility. To select speed 1 (highest torque setting), turn the tool off and permit it to stop. Slide the gear shifter (g) all the way forward. Speed 2 (middle torque and speed setting) is in the middle position. Speed 3 (highest speed setting) is to the rear.

NOTE: Do not change gears when the tool is running. Always allow the drill to come to a complete stop before changing gears. If you have trouble changing gears, make sure that the gear shifter is engaged in one of the three speed settings.

Chucks

WARNING: *Do not attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and turning the tool on. Damage to the chuck and personal injury may result. Always lock off trigger switch and disconnect tool from power source when changing accessories.*

WARNING: *Always ensure the bit is secure before starting the tool. A loose bit may eject from tool causing possible personal injury.*

KEYLESS SINGLE SLEEVE CHUCK (FIG. 7–9)
DCD940, DCD930, DCD920

Your tool features a keyless chuck with one rotating sleeve for one-handed operation of the chuck. To insert a drill bit or other accessory, follow these steps.

1. Lock the trigger in the OFF position. Turn off tool and disconnect tool from power source.
2. Grasp the black sleeve of the chuck (d) with one hand and use the other hand to secure the tool as shown in Figure 7. Rotate the sleeve counterclockwise (as viewed from the front) far enough to accept the desired accessory.
3. Insert the accessory about 3/4" (19 mm) into the chuck and tighten securely by rotating the chuck sleeve clockwise with one hand while holding the tool with the other hand. Continue to rotate the chuck sleeve until several ratchet clicks are heard to ensure full gripping power.

To release the accessory, repeat Steps 1 and 2 above.

Be sure to tighten chuck with one hand on the chuck sleeve and one hand holding the tool for maximum tightness.

SELF-TIGHTENING CHUCK OPERATION (FIG. 10–12)
DCD945, DCD935, DCD925

To insert a drill bit or other accessory:

1. Lock the trigger in the OFF position. Turn off tool and disconnect tool from power source.
2. Grasp the chuck sleeve (m) with one hand and use the other hand to secure the tool as shown in Figure 10. Rotate the sleeve counterclockwise (as viewed from the front) far enough to accept the desired bit or accessory.
3. Insert the bit or other accessory about 3/4" (19 mm) into the chuck, as shown in Figure 11. Grasp the chuck sleeve (m) securely and rotate the sleeve clockwise (viewed from the front) with one hand while using the other hand to secure the tool. Rotate the sleeve clockwise until sleeve cannot be rotated any further, as demonstrated in Figure 12. As the drill is being operated in the forward position, the chuck will continually self tighten the jaws of the chuck onto the bit or accessory to maximize the bit gripping strength.

To release the accessory, repeat Steps 1 and 2.

OPERATION

Instructions for Use

WARNING: *Always observe the safety instructions and applicable regulations.*

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories.

Proper Hand Position (fig. 13)

WARNING: *To reduce the risk of serious personal injury,* ***ALWAYS*** *use proper hand position as shown in figure 13.*

WARNING: *To reduce the risk of serious personal injury,* ***ALWAYS*** *hold securely in anticipation of a sudden reaction.*

Proper hand position requires one hand on the main handle (i), with the other hand on the side handle (h).

Drill Operation

1. Select the desired speed/torque range using the gear shifter to match the speed and torque to the planned operation. Set the mode control collar to the drill symbol.
2. For WOOD, use twist bits, spade bits, power auger bits or hole saws. For METAL, use high-speed steel twist drill bits or hole saws. Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry.
3. Always apply pressure in a straight line with the bit. Use enough pressure to keep the drill bit biting, but do not push hard enough to stall the motor or deflect the bit.
4. Hold tool firmly with both hands to control the twisting action of the drill.
5. **IF DRILL STALLS,** it is usually because it is being overloaded. **RELEASE TRIGGER IMMEDIATELY,** remove drill bit from work, and determine cause of stalling. **DO NOT CLICK TRIGGER OFF AND ON IN AN ATTEMPT TO START A STALLED DRILL – THIS CAN DAMAGE THE DRILL.**
6. Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.

Screwdriver Operation (fig. 4–6)

1. Select the desired speed/torque range using the three-speed gear shifter (g) on the top of tool to match the speed and torque to the planned application. Initially set the torque adjustment

collar (e) at a lower setting to ensure the fastener to be set to your specification.

NOTE: Use the lowest torque setting required to seat the fastener at the desired depth. The lower the number, the lower the torque output.

2. Rotate the mode control collar (f) so the screw symbol is aligned with the arrow.
3. Reset the torque adjustment collar (e) to the appropriate number setting for the torque desired. Make a few practice runs in scrap or unseen areas to determine the proper position of the torque adjustment collar.

NOTE: The torque adjustment collar may be set to any number at any time. However, the torque adjustment collar is only engaged during screwdriving mode and not in drill and hammerdrill modes.

Hammerdrill Operation

1. Select the desired speed/torque range using the gear shifter to match the speed and torque to the planned operation. Set the mode control collar to the hammer symbol.
2. When drilling, use just enough force on the hammer to keep it from bouncing excessively. Too much force will cause slower drilling speeds, overheating, and a lower drilling rate.
3. Drill straight, keeping the bit at a right angle to the work. Do not exert side pressure on the bit when drilling as this will cause clogging of the bit flutes and a slower drilling speed.
4. When drilling deep holes, if the hammer speed starts to drop off, pull the bit partially out of the hole with the tool still running to help clear debris from the hole.
5. For masonry, use carbide-tipped bits or masonry bits. A smooth, even flow of dust indicates the proper drilling rate.

MAINTENANCE

Your DEWALT power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect battery pack before making any adjustments or removing/installing attachments or accessories. *An accidental start-up can cause injury.*

The charger is not serviceable. There are no serviceable parts inside the charger.

Lubrication

Your power tool requires no additional lubrication.

Cleaning

WARNING: *Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection and approved dust mask when performing this procedure.*

WARNING: *Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.*

CHARGER CLEANING INSTRUCTIONS

WARNING: *Shock hazard. Disconnect the charger from the AC outlet before cleaning. Dirt and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions.*

Optional Accessories

WARNING: *Since accessories, other than those offered by DEWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DEWALT, recommended accessories should be used with this product.*

Consult your dealer for further information on the appropriate accessories.

Protecting the Environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your DEWALT product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

DEWALT provides a facility for the collection and recycling of DEWALT products once they have reached the end of their working life. To take advantage of this service please return your product to any authorised repair agent who will collect them on our behalf.

You can check the location of your nearest authorised repair agent by contacting your local DEWALT office at the address indicated in this manual. Alternatively, a list of authorised DEWALT repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**.

Rechargeable Battery Pack

This long life battery pack must be recharged when it fails to produce sufficient power on jobs which were easily done before. At the end of its technical life, discard it with due care for our environment:

- Run the battery pack down completely, then remove it from the tool.
- Li-Ion, NiCd and NiMH cells are recyclable. Take them to your dealer or a local recycling station. The collected battery packs will be recycled or disposed of properly.

GUARANTEE

DEWALT is confident of the quality of its products and offers an outstanding guarantee for professional users of the product. This guarantee statement is in addition to and in no way prejudices your contractual rights as a professional user or your statutory rights as a private non-professional user. The guarantee is valid within the territories of the Member States of the European Union and the European Free Trade Area.

• 30 DAY NO RISK SATISFACTION GUARANTEE •

If you are not completely satisfied with the performance of your DEWALT tool, simply return it within 30 days, complete with all original components, as purchased, to the point of purchase, for a full refund or exchange. The product must have been subject to fair wear and tear and proof of purchase must be produced.

• ONE YEAR FREE SERVICE CONTRACT •

If you need maintenance or service for your DEWALT tool, in the 12 months following purchase, it will be undertaken free of charge at an authorised DEWALT repair agent. Proof of purchase must be produced. Includes labour. Excludes accessories and spare parts unless failed under warranty.

• ONE YEAR FULL WARRANTY •

If your DEWALT product becomes defective due to faulty materials or workmanship within 12 months from the date of purchase, DEWALT guarantees to replace all defective parts free of charge or – at our discretion – replace the unit free of charge provided that:

- The product has not been misused;
- The product has been subject to fair wear and tear;
- Repairs have not been attempted by unauthorised persons;
- Proof of purchase is produced;
- The product is returned complete with all original components.

If you wish to make a claim, contact your seller or check the location of your nearest authorised DEWALT repair agent in the DEWALT catalogue or contact your DEWALT office at the address indicated in this manual. A list of authorised DEWALT repair agents and full details of our after-sales service is available on the Internet at: **www.2helpU.com.**

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